

From: Donnell from National Biodiesel Board <info=biodiesel.org@mail47.atl31.mcdlv.net> on behalf of Donnell from National Biodiesel Board <info@biodiesel.org>
Sent: Wednesday, November 12, 2014 11:01 AM
To: Larson, Robert
Subject: Biodiesel's Secret Ingredient

National Biodiesel Conference and Expo
Fort Worth, TX | January 19-22, 2015

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Dear *FNAME*,

One of the simplest facts about biodiesel is this: the industry is constantly changing.

The National Biodiesel Conference and Expo is the the secret ingredient to managing the ever-transforming challenges. Here is what you can expect:


1. Exposure to biodiesel stakeholders and decision makers
2. Relationship building with new and existing clients
3. Unopposed expo time for even more interaction with attendees

I encourage you to check out biodieselconference.org and see how this conference can work for you.

See you in January!

-Donnell Rehagen

[Reserve a booth >](#)



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You are receiving this email because you've expressed interest in exhibiting, or have exhibited, at the biodiesel conference in the past.

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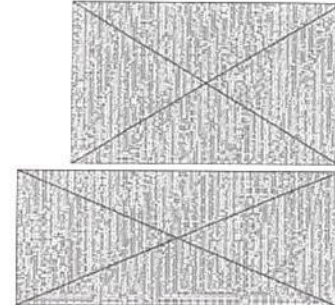
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To: Larson, Robert[larson.robert@epa.gov]
From: Algae Biomass Organization
Sent: Wed 10/1/2014 2:41:05 PM
Subject: Dispatch from the Algae Biomass Summit

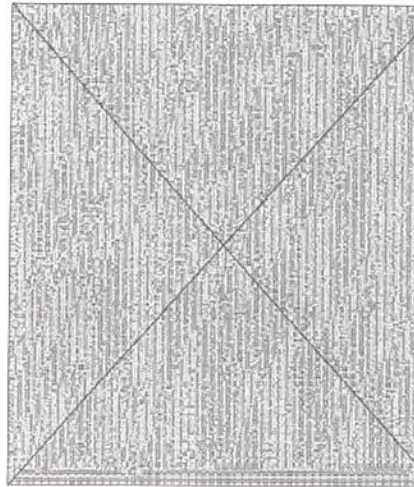


The Largest Algae Conference in the World
The Algae Biomass Summit

Dispatch from the Algae Biomass Summit

The 2014 Algae Biomass Summit opened today with more than 600 industry leaders who gathered to hear presentations by top officials from the Department of Energy, CEO's of leading algae companies, and experts in national security, technology development and research.

Some of the days highlights:



Matt Carr kicks off the Summit

"There's an algae for that"

Matt Carr, executive director of the Algae Biomass Organization greeted Summit attendees with a presentation that reminded the industry of the great potential algae has to tackle problems such as climate change, food supplies, as well as energy and water shortages.

Algae's potential is so great that almost regardless of the problem, "there's an algae for that," said Matt as he listed the innovations and solutions that will be discussed this week at the Summit.

Follow developments at the Summit on Twitter: **#ABS14**

Sign the carbon utilization petition

Matt also announced that ABO has initiated a "*We the People*" petition

petition encouraging the White House to encourage the EPA to allow states to meet CO2 reduction goals by recycling CO2 with carbon capture & utilization (CCU) technology.

Virtually every speaker at the opening sessions acknowledged that algae's need for CO2 is an unprecedented opportunity for utilities and other carbon dioxide emitters to think of CO2 as an opportunity rather than a problem.

You can contribute to this effort! Support common sense, market-driven, job-creating and emissions-reducing technologies by [signing the petition here](#).

Department of Energy Announces Up to \$25 Million to Reduce Costs of Algal Biofuels

During his opening keynote address David Danielson, Assistant Secretary of Energy Efficiency and Renewable Energy at the U.S. Department of Energy announced up \$25 million in funding that will be targeted toward reducing the cost of algal biofuels to less than \$5 per gasoline gallon equivalent by 2019.

[Check out the full DOE announcement.](#)

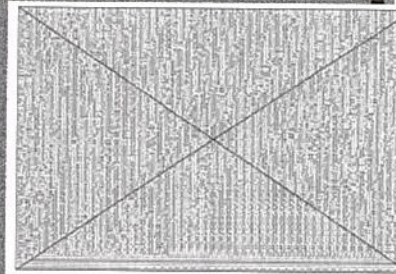
Updates from Industry Leaders

Biofuels Digest editor and publisher Jim Lane commented that the industry is indeed evolving when he finds himself moderating two panels on commercialization progress instead of the single panels on the topic at previous Summits.

Mr. Lane guided updates, discussion and questions from a packed auditorium with executives from Algenol, BioProcess Algae, Heliae, Matrix Genetics, Sapphire Energy, ALGIX, LLC, Cellana, Earthrise Nutritionals, Synthetic Genomics and Muradel.

The one word theme? **Products**. Each company reported new moves to commercialize a wide range of algae-derived products in markets with trillion dollar potentials.

Saving Lives - Algae and National Security



Mike Breen

Mike Breen, Executive Director of the Truman National Security Project provided attendees with an inspiring talk about the importance of developing renewable and domestic supplies of fuels to improve our national security.

Noting his own experience in the military protecting fuel convoys from attack, Mr. Breen told the hundreds of algae industry entrepreneurs and scientists gathered in San Diego that they have full support from his organization's clean energy campaign Operation Free:

"Challenges of this magnitude can only be confronted with enormous innovative effort. Some might find the size of this challenge paralyzing when compared to the size of this room. But you have a duty to succeed. And I'm here to tell you that you're not in it alone. The thousands of veterans and supporters of Operation Free are standing with you."

[Read more excerpts of Mr. Breen's talk here.](#)

SCHOTT and Algatechnologies Announce R&D Partnership

Natural-astaxanthin supplier Algatechnologies plans to boost algae production in a big way with new, thin-walled glass tubes developed in partnership with SCHOTT AG.

[Nutritional Outlook has the story.](#)

Media Coverage

Algae Industry Growing, Transforming in the U-T San Diego

An op-ed by ABO's Executive Director Matt Carr and Cleantech San Diego's President

Jason Anderson

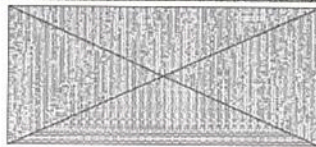
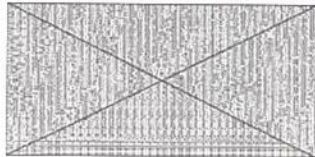
Algae as biofuels focus of summit in the U-T San Diego

by Bradley Fikes, biotechnology reporter

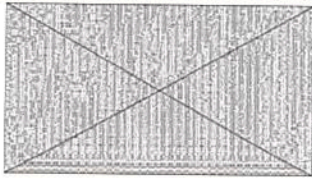
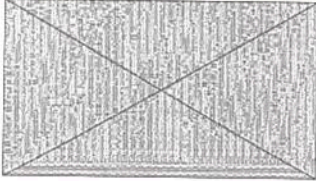
Algae, Will Bossie Like It? in Biofuels Digest

By Jim Lane

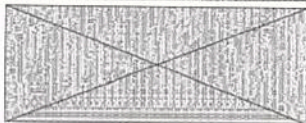
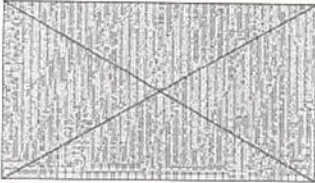
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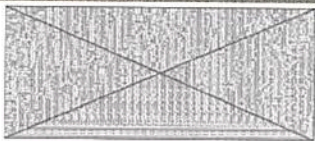
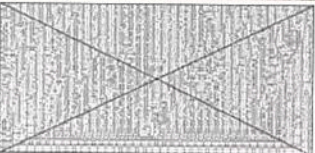
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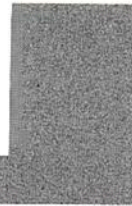
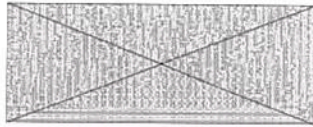
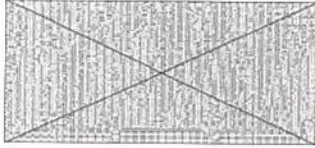


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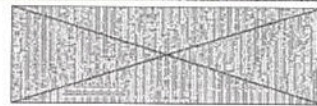
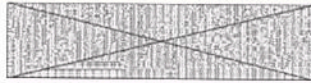
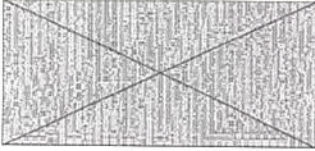


Supporting Organizations





Media Sponsors



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info@algaebiomass.org

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info@algaebiomass.org | 877.531.5512

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Algae Biomass Organization | PO Box 369 | 125 St. Paul Street | Preston | MN | 55965

Meekins, Tanya

From: BIO - Biotechnology Industry Organization <BIONewsletter@bio.org>
Sent: Thursday, September 11, 2014 1:03 PM
To: Larson, Robert
Subject: BIO Newsletter: September 11, 2014

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09.11.2014

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21ST CENTURY CURES

Jim Greenwood: Biopharma Answers the Call for Cures

BIO President and CEO Jim Greenwood participated in a roundtable hosted by Congressman Joe Pitts to discuss how to expedite cures and treatments with leading national, regional and local health care innovators from the government, private and public sectors...

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LIVESTOCK BIOTECH SUMMIT

IP Rights to Newsworthy Keynotes, BIO Takes a Fresh Look into Animal Biotech

BIO's Livestock Biotech Summit three day program will include a number of leading experts in the field of animal biotechnology to share their experiences and insights into this promising field, including keynote addresses by



BIO INVESTOR FORUM

Buzz of BIO winners at the 2014 BIO Investor Forum™

Building on the success of the Buzz of BIO competition at the BIO International Convention, BIO recently hosted a similar competition for the upcoming BIO Investor Forum. The first Buzz of BIO at the BIO Investor Forum competition featured 18

09.16.14

Livestock Biotech Summit

This unique conference offers a focus on genetic engineering of agricultural animals including benefits, research and development, regulatory system, and challenges to advancing health, food and industrial applications of animal biotechnology...

[REGISTER](#)

10.07.14

BIO Investor Forum

The BIO Investor Forum is an international biotech investor conference focused on early and

Dr. Richard Raymond and Dr. James Murray...

nominees pulling in over 1,300 votes...

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2015 BIO INTERNATIONAL CONVENTION

BIO 2015 Program Co-Chair Asks the Question - Will You Be A Change Agent in 2015

Rob Wright of Life Science Leader challenges biotechnology, pharmaceutical, business development, life sciences and policy experts to be a change agent in 2015...

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HEALTH

Jack the Ripper Mystery May Be Solved through DNA Testing

Author Russell Edwards and Jari Louhelainen, a molecular biology professor at Liverpool John Moores University claim to have solved the 126-year-old mystery surrounding the identity of Jack the Ripper...

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BIOFUELS

Iowa Turns Out for Grand Opening of Cellulosic Biofuels Project

Project Liberty is the first plant developed out of a joint venture between Royal DSM and Sioux Falls-based POET. POET-DSM hosted a well-deserved celebration of their technological and engineering achievement...

Share:   

BIOSIMILARS

Pitts Sounds off on Biosimilar Naming

Peter J. Pitts, President, Center for Medicine in the Public Interest and Former Associate Commissioner, U.S. Food and Drug Administration, asserts that those who view distinctive biosimilar nomenclature naming as either contrary to safety or anti-competitive are addressing these issues through a single dimension...

established private companies as well as emerging public companies. The event features plenary sessions, business roundtables and therapeutic workshops, company presentations, and One-on-One Partnering™ meetings...

[REGISTER](#)

11.03.14

BIO-EUROPE

The 20th annual BIO-Europe is Europe's largest partnering conference serving the global biotechnology industry...

[LEARN MORE](#)

11.10.14

BIO IPCC Conference

The biannual BIO Intellectual Property Counsels Committee Conference offers timely, relevant educational sessions on the latest issues in the biotech IP sector, informal networking events designed to promote discussion and foster relationships among industry colleagues, and practical tips for attendees to use the next day...

[REGISTER](#)

12.7.14

Pacific Rim Summit on Industrial Biotechnology & Bioenergy

The ninth annual Pacific Rim Summit on Industrial Biotechnology and Bioenergy is the original conference dedicated solely to the growth of the industrial biotechnology and bioenergy sectors in North America and the Asia-Pacific region. The 2014 event will be held in San Diego,

Share:   

California from December 7 -9, 2014
at the Westin Gaslamp Quarter...
SAVE THE DATE

FOOD LABELING

Pro-GMO Labeling Business Faces Own Labeling Dilemma

The Center for Consumer Freedom recently published an interesting piece on Dr. Bronner's Magic Soaps and his run in with the FDA. You may know that Dr. Bronner's Magic Soaps is an outspoken advocate of the scientifically suspect "GMO labeling" movement...

Share:   



HEALTH

BIO Participating in IDSA Stakeholder Group on Antimicrobial Resistance

BIO will be participating in a newly formed partnership which will work collaboratively to inform federal policy and find ways to better combat the growing crisis of antimicrobial resistance...

Share:   

Senior Director/ Vice
President Quality, NewLink
Genetics Corporation
Ames, Iowa, United States
August 22, 2014

VACCINES

The Best Conspiracy Theories Never Die

There are no aliens at Area 51, Elvis has left the building, Obama was born in the USA - and Jenny McCarthy's willfully ignorant anti-vaccine campaign has endangered lives...

Share:   

Principal Scientist -
Medicinal Chemist,
Ensemble Therapeutics
Cambridge, Massachusetts, United
States
August 28, 2014

Director Franchise Marketing
MS Global Comm, Genzyme
Cambridge, Massachusetts, United
States
September 5, 2014

EMERGING COMPANIES

Roadblocks and Red Tape Block Search for Cures

Since its passage more than two years ago, the JOBS Act has spurred more than 110 biotech IPOs. And now the SEC is in the process of finalizing another important piece of the law that could further encourage biotech capital formation...

Share:   

Senior Research Associate,
Virology, Battelle National
Biodefense Institute
Frederick, Maryland, United States
August 28, 2014

ALZHEIMER'S

The New Republic: We are Entering the Age of Alzheimer's

The New Republic published a lengthy, powerful piece by Kent Russell on Alzheimer's. Russell opens the piece by noting that we are approaching a public health crisis in Alzheimer's and dementia...

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21ST CENTURY CURES

Pennsylvania Roundtable Answers the Call for Cures

Congressman Joe Pitts (PA-16) recently hosted a roundtable in Lancaster to discuss how to expedite cures and treatments with leading national, regional and local health care innovators from the government, private, and public sectors...

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LIVESTOCK BIOTECH SUMMIT

Summit to Explore Livestock Biotech Advances

A former undersecretary of agriculture for food safety, Richard Raymond, will be a keynote speaker at this year's Livestock Biotech Summit in Sioux Falls...

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LIVESTOCK BIOTECH SUMMIT

GMO Labeling: a Debate for the Well-Fed

BIO wanted to bring to your attention a great piece by Dr. Richard Raymond, former USDA undersecretary for food safety and scheduled keynoter at this month's BIO Livestock Biotech Summit...

Share:   

HEALTH

Patients Suffering from Gaucher's Disease Deserve Better

Gaucher Disease is one of the over 6,000 rare diseases that affect patients worldwide, representing a frontier of unmet medical need...

Commercialization Officer,
Vaccine Development, PATH
Seattle, Washington, United States
August 28, 2014

POST A BIOTECHNOLOGY JOB >



Ending Friday and the week on a very happy note: great news for autoimmune disease!

17 LIKES | JOIN



What's happening in Rio? Innovation & partnering opps in Latin America's hot life science industry #BIOLatAm14
<http://ow.ly/B75aU>

5 RETWEETS | JOIN



Graduates with science, technology, engineering, and math (STEM) degrees were the least likely to be underemployed. In fact, 9 of the top 10 least underemployed majors were in a STEM.

2 COMMENTS | JOIN

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INDUSTRY ANALYSIS

Biotech Analyst Optimism: Price Targets Post-IPO

In a recent blog post, Bruce Booth of Life Sci VC, writes about the relationship between a forecasted price target of a biotech stock and its current share price...

Share:   

BIO LATIN AMERICA CONFERENCE

Partnering in Latin America, According to the Experts

Latin America is a hotbed for biotech activity. I recently sat down with four movers and shakers in Latin American biotech to get their thoughts and perspectives...

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To: Larson, Robert[larson.robert@epa.gov]
From: BIO - Biotechnology Industry Organization
Sent: Thur 8/28/2014 6:23:24 PM
Subject: BIO Newsletter: August 28, 2014

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08.28.2014

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BIO INVESTOR FORUM

The 13th Annual BIO Investor Forum to Host Over 100 Presenting Companies

Over the past three years, more than 30 of the private companies that presented at a BIO Investor Forum have gone public, generating a current combined market capitalization of nearly \$15 billion. Investors are eager to learn about and evaluate fresh new investment opportunities, as evidenced by the 30 percent increase in investor registration to date compared to last year...

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LIVESTOCK BIOTECH SUMMIT

BIO to Host High-Level Speakers at 2014 LBS




BIO is excited to announce that South Dakota Governor Dennis Daugaard will present welcoming remarks to Livestock Biotech Summit attendees on September 17. Additionally, BIO is pleased to announce that Dr. Richard Raymond, former USDA Undersecretary of Agriculture for Food Safety, will deliver a keynote address at this year's summit...

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ALZHEIMER'S




3 Steps for Tackling a Devastating Disease

An estimated 24 million people

worldwide have dementia, most from Alzheimer's disease. That number is predicted to double by 2020 – just over five years from now – and triple by 2040. The numbers are equally striking for the U.S., where more than a million people over the age of 65 are afflicted today – a number that is expected to triple by 2050...
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BIOSIMILARS

Docs to FDA: Biosimilars Should Have Different Names Than Branded Drugs

Fierce Biotech highlighted a letter written by more than 10 medical associations and 20 individual specialists to FDA Commissioner Margaret Hamburg saying that biosimilars "must have distinguishable nonproprietary names."
Share:   




HEALTH

Seattle Times Commentary: New Approaches Needed to Fight Ebola

In the Seattle Times, BIO Ventures for Global Health President Jennifer Dent offered commentary on the need for new drug development models to develop treatments for Ebola, arguing that conventional approaches are not working for neglected tropical diseases...
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
HEALTH

National Immunization Awareness Month

August is National Immunization Awareness Month, providing a reminder of the importance of proper vaccination just as kids are heading back to school...
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BACK TO SCHOOL

Consider a STEM Career

Biotechnology and bioscience companies are a major employer of STEM graduates. In 2012, they employed about 1.6 million Americans across more than 73,000 individual businesses...
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FOOD AND AGRICULTURE

A Refreshing Look at the NEW Potato




The Capital Press ran an op-ed from Idaho farmer Lisa Patterson about new potato technology that will reduce black spot bruising and browning when cut and help prevent unnecessary waste...
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HEALTH



AP: Groups Claim Insurance Discrimination

Ricardo Alonso-Zaldivar highlights assertions by patient groups that new insurance
HEALTH

barriers are discriminatory against sick people, particularly patients with chronic conditions...

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Wall Street
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WSJ Editorial: The Medical Innovation Threat

Wall Street Journal looks at the rising threat the American insurance industry's increasingly loud attacks on Sovaldi, a revolutionary new Hepatitis C treatment, pose for medical innovation and the development of new specialty drugs...

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HAWAII

Hawaii's Takes a Hurricar

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HAWAII



Hawaii's Papaya Industry Takes a Devastating Hit from Hurricane Isselle

With winds in excess of 60 mph, much of Hawaii experienced significant fallout from Hurricane Isselle. Most notably, Hawaii's papaya industry was most impacted by Isselle experiencing shattering commodity losses...

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LIVESTOCK BIOTECH SUMMIT

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LIVESTOCK BIOTECH SUMMIT

South Dakota Leads the Way in Livestock Agriculture!

The Rapid City Journal recently published a noteworthy editorial by South Dakota Governor Dennis Daugaard highlighting how his state has lead the way in contributing to field of animal biotechnology...

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ALS Ice Bucket Challenge Brings Attention to the Need For Private Funding

The ALS Ice Bucket Challenge is a social media phenomenon in which people post videos of themselves pouring water on their heads to raise both awareness and funds for ALS research.

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ALS Ice Bucket Challenge Brings Attention to the Need For Private Funding

The ALS Ice Bucket Challenge is a social media phenomenon in which people post videos of themselves pouring water on their heads to raise both awareness and funds for ALS research.

INTELLECTUAL PROPERTY




BIO Submits Patent Application for Braintree Natco, a Squibb and Pharmacia

BIO has submitted a patent application for cases which and biotech reconsideration Supreme Court Appeals for

HEALTH



ALS Ice Bucket Challenge Brings Attention to the Need For Private Funding

The ALS Ice Bucket Challenge – the social media phenomenon in which people post

videos of themselves dumping buckets of water on their heads – has swept through social media like wildfire as part of an effort to raise both awareness and funding for ALS research...
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INTELLECTUAL PROPERTY



BIO Submits Amicus Briefs in Braintree v. Novel, Gilman v. Natco, and Bristol-Myers Squibb v. Teva Pharmaceuticals

Aren't a

BIO has submitted briefs in three recent cases which could significantly impact GMO and biotechnology efforts, urging reconsideration and review from both the Supreme



Court and the U.S. Court of Appeals for the Federal Circuit...
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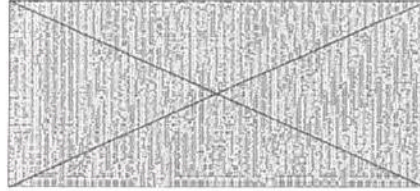
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Biofuels

Reuters (August 22, 2014) [U.S. EPA Sends Final 2014 Biofuel Targets to White House for Review](#)

The U.S. Environmental Protection Agency on Friday sent its final targets for 2014 biofuel use to the White House, as the long-delayed rule enters its final round of review before public release. With the rule now at the White House, the administration will face a last-ditch round of lobbying from biofuel producers seeking changes to the rule and opponents of the mandate hoping regulators will stand firm on proposed cuts to the targets.

ClimateWire (August 19, 2014) [Scientists Hunting for the Next Big Crop Find 49 Candidates](#)

Scientists searching for the next big energy-producing biofuel, something such as switchgrass that power plants could burn to make electricity and reduce their carbon emissions, have a very fussy wish list. Ideal species should not be food crops. They need to grow quickly and have to be successful on marginal land that's less suited to growing food crops. They should be resistant to disease and pests, and also produce enough biomass to make them competitive with fossil fuels. The problem is that plants with good possibilities often have the same traits that make them potentially invasive species, said Lauren Quinn, an invasive plant ecologist at the University of Illinois' Energy Biosciences Institute. That prompted Quinn and her colleagues to come up with a [white list](#) of potential species that were appropriate for biofuel use and had low risk of becoming invasive.

New York Times (August 18, 2014) [Seeing Purpose and Profit in Algae](#)

Entrepreneurs have been trying for years to get something valuable out of algae. Although algae grow prodigiously and contain potentially useful molecules — especially lipids, which can be turned into high-energy fuel and other products — extracting those molecules has proved complicated and expensive. So far, virtually the only marketable products based on algae have been high-end skin creams. But a Nevada company, [Algae Systems](#), has a pilot plant in Alabama that, it says, can turn a profit making diesel fuel from algae by simultaneously performing three other tasks: making clean water from municipal sewage (which it uses to fertilize the algae), using the carbon-heavy residue as fertilizer and generating valuable credits for advanced biofuels.

Biofuels Digest (August 11, 2014) [The Hydrogen Wall: Looking at the Prospects for Drop-in Biofuels](#)

Think affordable, available, sustainable carbon is the biggest barrier to the growth of biofuels? Or, access to market via blender pumps? In the case of drop-in biofuels, the biggest challenge might be finding enough hydrogen. "Similarly, greater amounts of hydrogen are generally needed to produce more energy dense and highly reduced drop-in biofuels...to remove oxygen from oxygenated lignocellulose intermediates or lipid feedstocks. Non-hydrogen-consuming processes such as catalytic or thermal cracking can also be used to increase the H/C ratio of petroleum feedstocks by removing carbon in the form of tars and char (coke). However, this approach consumes feedstock and reduces yields and so is generally avoided, particularly when prices for

Domestic Fuel (August 7, 2014) [Hawaii Funds BioTork Advanced Biofuel Technology](#)

The Hawaii Department of Budget and Finance is now authorized to issue special purpose revenue bonds not exceeding \$50,000,000 for the purpose of planning, permitting, designing, construction, equipping, and operating BioTork Hawaii LLC's commercial facilities. Recently, the state passed legislation to assist in funding a zero waste project that converts crops, crop residues, dedicated energy crops and ag waste into sustainable biofuels and co-products. According to BioTork, their bioconversion development efforts in Hawaii date back to 2010 when it began research of its technology. The company uses a "proprietary evolutionary optimization approach," and "enhances the performance of non-GMO microorganisms under real-world industrial conditions in an unrivaled cost efficient way". The conversion process takes a few days to cycle in a heterotrophic environment, meaning no sunlight is needed, to create oil for biofuel and high-protein feed.

Reuters (August 6, 2014) [Boeing, South African Airways to Make Jet Fuel from Tobacco](#)

U.S. planemaker Boeing has teamed up with South African Airways to develop jet fuel from a tobacco plant as part of efforts to cut carbon emissions and promote green energy in Africa's most advanced economy. The jet fuel will be made from a hybrid tobacco plant known as Solaris, which will be produced by alternative jet fuel maker SkyNRG, both companies said in a joint statement on Wednesday. Test farming of the plants, which are nicotine-free, is ongoing in South Africa, with biofuel output expected in the "next few years", the companies said.

Greenwire (August 4, 2014) [Admin Releases Biogas Road Map for Farmers](#)

The Agriculture Department, Energy Department and U.S. EPA released guidelines to help farmers develop biogas systems, a move they say will generate renewable energy, cut greenhouse gas emissions and drive economic growth in rural areas. The agencies plan to leverage more than \$10 million for the systems, which take animal manure, plant matter and other agricultural waste and convert it into electricity, heat or fuels. USDA will also work to gather financial and technical data from the industry, strengthen investment through loan programs and federal procurement orders, assess barriers around integrating biogas into natural gas systems, and put together a Biogas Opportunities Roadmap Working Group that will publish a report on the issue by August 2015.

Biofuels Digest (July 31, 2014) [The Boss from Hell? EPA, Congress and Advanced Biofuels](#)

Congress passed the Renewable Fuels Standard in 2007, as part of the Energy Independence and Security Act, and appointed EPA to take on much of the oversight. The intricacies and nuances of turning policy into reality are confusing to most people — who can't tell stover from bagasse and really don't care, because they've got bills to pay and kids to raise. But nearly all of us have been employees at some stage in our lives. Most of us have encountered, at least once, The Boss from Hell. So, let's consider the management of the Renewable Fuel Standard in that more broadly-understood framework.

Biobased Products, Renewable Specialty Chemicals, and Synthetic Biology

The Hill (August 12, 2014) [Will the Real Synthetic Biology Please Stand Up?](#)

People within the life sciences often use the term "synthetic biology" but still disagree on exactly how to define it. One running joke is that if you ask five scientists, you'll get six different definitions. The term was coined by biotech researchers who wanted to set their efforts apart from ongoing biotech applications. But while synthetic biology represents the latest advances in harnessing the power of genetic code, it actually is part of a continuum in the development of metabolic engineering, genomics, proteomics and bioinformatics. It is indeed noteworthy because it seeks to integrate the principles of engineering with the practice of biotechnology.

Industrial Biotechnology Journal (August 8, 2014) [Building a Sustainable Supply Chain for the Biobased Economy](#)

Article includes contributions from Stephanie Batchelor, Director, State and International Policy at BIO. The Biotechnology Industry Organization (BIO, Washington, DC) believes abundance is possible if our natural

resources are managed thoughtfully and systematically, innovation is allowed to flourish, and stakeholders are engaged and competing interests balanced for the greater good. BIO established a task force of its Climate, Sustainability, and Feedstock Working Group to help its members address these big challenges. The BIO Industrial and Environmental Sector (IES) Sustainable Supply Chain Task Force was formed to consider how member companies could satisfy demands for sourcing feedstock that would meet high expectations for sustainability. The Task Force work plan called for a high-level assessment of the current situation and the development of recommendations for delivery to the Governing Board intended for priority action as part of the 2014 strategic plan.

Genetic Engineering & Biotechnology News (August 21, 2014) Emerging Policy Issues in Synthetic Biology

Potential future applications and a growing new bioeconomy are bringing issues with research infrastructure, IP, and other areas to the fore. The OECD book *Emerging Policy Issues in Synthetic Biology*, published in June 2014, looks at both the promise of synthetic biology and the potential pitfalls. Hence it examines the current and potential future applications, with a significant emphasis on the growth of a new bioeconomy, and then looks at policy-related issues in some detail: research infrastructure; investment patterns; intellectual property issues; and governance and regulation. The current work on synthetic biology underway at the OECD is more firmly focused on the bioeconomy, and specifically biobased production. This work will be published toward the end of 2014.

The Scientist (August 13, 2014) Glowing Plants Firm Gets Venture Backing

Plants genetically modified to glow in the dark just got one step closer to becoming a household reality. Glowing Plant, a fledgling synthetic biology company that intends to sell *Arabidopsis thaliana* and rose seeds that will grow glowing plants, has been backed by Y Combinator, a Silicon Valley venture capital firm that makes small investments in a large number of startups every year. Glowing Plant made more than \$450,000 last year with a campaign on Kickstarter. The move marks an incursion into the life science space for Y Combinator, which has thus far invested in web and tech companies rather than in biotech.

AgriPulse (August 6, 2014) USDA Announces Addition of Wood Products to BioPreferred Program

The USDA issued a final rule that eliminates restrictions on mature market wood products and other materials in the BioPreferred Program. The ruling establishes a procedure to designate "intermediate ingredients" so products derived from them can be included in the "preferred" federal procurement process. The rule establishes procedures for designating "complex assemblies" that contain one or more components made from biobased ingredients. "Every day, companies across the nation are expanding markets for agriculture and growing job opportunities in rural America," said Agriculture Secretary Tom Vilsack. "The inclusion of innovative wood products furthers our commitment to strengthening the biobased economy and ensures that the Federal government uses home American grown products whenever possible."

Plastics News (August 6, 2014) Despite its History, Bioplastics Remains a Niche Industry

The concept of making plastics from renewable materials — mainly crops such as corn or soybeans — seems to have gained new life in recent years as sustainability has become more of a buzzword. By using organic material as a feedstock, bioplastics avoid the environmental spectres of oil and gas — more common plastics feedstocks. Some bioplastics also can be biodegradable, thus removing those products from the waste stream and saving precious space in landfills. But being able to make bioplastics and being able to make them profitably have proven to be two different tasks over PN's 25-year history. We've often received glowing introductory press releases about startup companies or university research labs that have found new ways to enter the market. But the first time we hear about these efforts often is the last time we hear about them. Very few of them even reach full commercialization.

Scientific American (July 30, 2014) Strong, Clear Bioplastic Containers Could be Made from Rice

Researchers in Finland have transformed rice starch into a temporally stable, optically transparent, biodegradable plastic with a high degree of mechanical strength and good thermal resistance. This important step towards bioplastics made from simple and sustainable resources has potential applications in food packaging and biomedical materials. A brittle polymer, starch can be treated with heat and water, via a technique called gelatinisation, to make it suitable for traditional plastic processing techniques. However, films prepared by this method rapidly recrystallize and degrade, leaving them amorphous and brittle again...Virginia Nykanen and colleagues at Aalto University have devised a creative solution to this problem. They used a star-shaped molecule called AEEP (aminoethoxy ethanol substituted phosphazene), the arms of which act as dynamic and mobile hydrogen bonding plasticiser molecules while being connected to a central core, effectively preventing

migration and leaching of the starch molecules from the resulting plastic.

Defense Systems (July 30, 2014) Researchers Look to Unlock the Potential of Synthetic Biology

As new synthetic biology techniques become more sophisticated, raising the possibility of things ranging from new fuels to medical treatments, the Defense Advanced Research Projects Agency is creating a new program to deal with challenges inherent to the science. The goal of DARPA's Biological Robustness in Complex Settings (BRICS) program is to create a technical foundation for future engineered biological systems that would have improved strategic, industrial and biomedical possibilities, according to a DARPA release. But while it shows some promise, the widespread use of synthetic biology remains limited by significant challenges. First, the modified organisms tend to be fragile – they often require rigid environmental conditions to live. They are also unstable and prone to losing their engineered tasks because of genetic attrition or recombination. As a result of these issues, the costs required for dealing with genetic changes and maintaining specific environments make general use of these organisms unfeasible.

Industrial and Environmental Section Member News

Food Navigator (August 18, 2014) Evolva and Cargill Publish Patent Application for 'Next Generation' Fermented Sweeteners

A new patent application that covers the efficient and sustainable production of sweeteners including Rebaudioside M (Reb M) using fermentation technology has been published by Evolva and Cargill. Cargill and Evolva Holding SA have been working on a joint development program to develop and produce minor steviol glycosides – the compounds responsible for the sweet taste in the stevia leaf – via fermentation technologies since March last year.

Greenwire (August 13, 2014) Cellulosic Plant Prepares to Open its Doors

The first of the major Midwest cellulosic ethanol plants will open its doors in early September. POET-DSM Advanced Biofuels LLC, the operator of the plant, announced yesterday that it plans to host a grand opening Sept. 3 that will feature plant tours, music and a formal ceremony. The 25-million-gallon-a-year plant is located in Emmetsburg, a small town in northwest Iowa, and will convert the cobs, leaves and husks that are left on fields after the corn harvest into ethanol. POET-DSM, a joint venture between ethanol giant POET LLC and Dutch enzyme manufacturer Royal DSM, began building the \$250 million plant in March 2012 adjacent to an existing POET corn ethanol facility.

PlastEurope (August 13, 2014) Biobased Processes for Nylon Intermediates Under Development

US biochemical company Genomatica has said that major PA intermediates, including hexamethylenediamine, caprolactam and adipic acid, are the focus of its third publicly-disclosed development programme. The company is developing complete process technologies for the biobased production of these intermediates, which it will then license to major firms in the PA value chain. These three chemicals have a total market of over USD 18 billion annually, it says.

The Times-Picayune (August 13, 2014) Cool Planet to Award Contract for \$56 Million Biofuels Plant in Alexandria

Cool Planet Energy Systems, a Colorado energy startup that aims to turn woodchips and other organic waste into gasoline as well as a crop-boosting soil enhancer, says it has started clearing land to build its first commercial plant in Alexandria. The company expects to put out the construction contract for the first phase of the \$56 million plant later this year.

Milwaukee Journal Sentinel (August 12, 2014) EPA Approves Virent Biofuel for Use in Cars, Trucks

Virent Inc. has taken another step toward producing commercial fuels from plant sugars, with its announcement Tuesday that it has received fuel registration from the U.S. Environmental Protection Agency. Virent said its BioForm Gasoline has been registered in blends of up to 45, and that its biogasoline can now be used in cars and trucks. The biogasoline, which is derived from plant sugars and produced at a biorefinery in Madison, is a high-octane fuel, which means it would be sold as a premium fuel at a gas station.

*The Guardian (August 12, 2014) **Non-Energy Firm Sorghum Offers Ethanol Without the Corn***

As scientists around the world research biomass feedstocks — trees, shrubs and grasses that are designed to produce energy — a California startup called NexSteppe is betting that fast-growing, drought-resistant sorghum will emerge as a crop to sustainably fuel cars, trucks and power plants. Sorghum, a millennia-old cereal grain, today feeds animals and people. "Sorghum is naturally very heat and drought tolerant," says Anna Rath, NexSteppe's founder, president and CEO. "It originated in Africa. It's a camel of a crop, if you will." Rath, who is 38, is a former McKinsey consultant with degrees in biology and genetics, as well a doctorate from Yale Law School. She started NexSteppe with about \$1m from friends and family in 2010. Since then, the company has raised about \$40m from venture capitalists and from DuPont, which has major investments in biofuels, including a cellulosic ethanol plant under construction in Iowa.

*Roll Call (August 11, 2014) **Message to EPA: Don't Quit While We're Ahead***

Commentary by Adam Monroe, president of the Americas for Novozymes. Americans know how to win because they are not afraid to lead and follow an ambitious plan...A prime example is our long history of leadership in biotechnology. Today, the U.S. is the world leader in the production of biofuels. We are also developing environmentally-friendly ways to produce biochemicals, materials, food and animal feed that use less petroleum and emit less CO2 throughout a product's life cycle. But this is a race for innovation and economic opportunity and we are not the only country competing: Brazil, China and others are making large investments in the production of biofuels, growing their bio-based economies and offsetting their carbon footprint...Despite the worst economic recession in decades, companies including POET, Abengoa, DuPont and others began construction of these advanced biofuel plants, putting thousands more Americans to work in construction, engineering, raw materials and management.

*The Wall Street Journal Market Watch (July 31, 2014) **First International Commercial Flight Completed with Newly Approved Amyris-Total Aviation Biofuel***

Yesterday, Amyris, an industrial bioscience company, partnered with Brazilian airline, GOL, to fly the industry's first commercial flight with farnesane, the recently approved renewable jet fuel. The first flight, GOL flight 7725, departed from Orlando, Florida on July 30, 2014 at 5:15 PM ET and traveled to Sao Paulo, Brazil. The Amyris website includes video footage and photos of the refueling using the Amyris-Total renewable jet fuel, departure of the flight and photography of the aircraft. Farnesane can reduce greenhouse gas (GHG) emissions by up to 80 percent compared to petroleum fuels. When blended with Jet A/A1 fuel at 10 percent, farnesane can also reduce particulate matter emissions, decreasing pollution near airports and major metropolitan areas.

Industry Events Calendar

European Forum for Industrial Biotechnology-September 30- October 2, 2014- Reims, France

EFIB is the premier marketplace for the European biobased economy and will increase engagement between industry, policy makers and stakeholders. This unmissable event is a must for all those wanting to take part in defining, developing and shaping this burgeoning smart and sustainable sector. efibforum.com

ABLCNext - November 9-11, 2014-San Francisco, California

ABLCNext focuses on rapidly emerging technologies and feedstocks, including novel molecules, new crops, hybrids and residues. advancedbiofuelssummit.com

Echochem- November 11-13, Basel Switzerland

The Ecochem Exhibition and Conference will provide an independent, scientifically-supported platform to accelerate innovation, research, commercialisation and market uptake in the design, production and use of efficient, effective, safe and more environmentally benign chemical products and processes. echochemex.com

BIO Pacific Rim Summit on Industrial Biotechnology and Bioenergy- December 7-9, 2014- San Deigo, California

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The BIO World Congress on Industrial Biotechnology is the world's largest industrial biotechnology event for business leaders, investors, and policy makers in biofuels, biobased products, and renewable chemicals. Mark your calendar- the call for papers for 2015 will open in October 2014. bio.org/worldcongress

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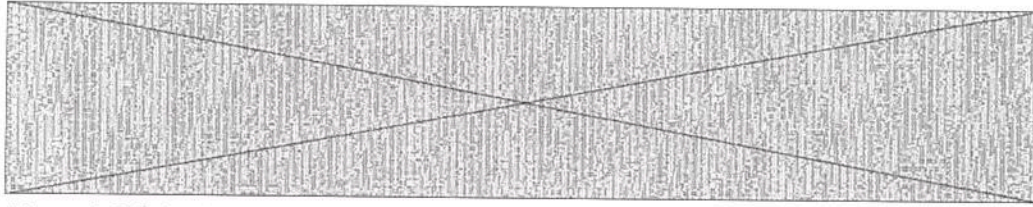
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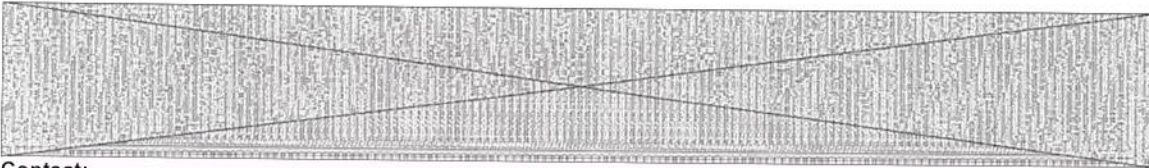
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Final 2014 RFS Rule Moves to OMB

(August 22, 2014) Washington D.C. – Today, the Environmental Protection Agency (EPA) sent the final 2014 Renewable Fuel Standard Renewable Volume Obligation rule to the Office of Management and Budget (OMB) for review. Bob Dinneen, President and CEO of the Renewable Fuels Association, commented on the development:

“While we have not seen the rule, we hold strong in our belief that EPA and OMB will fulfill President Obama’s commitment to biofuels as a means of greater energy independence, lower greenhouse gas emissions, and wider availability of cost-saving alternative fuels for American consumers. This decision is about more than targets and gallons, it is about a rationale that places highest importance on the long term strength of this country and not the bottom line of oil companies.”



Contact:
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BIO Latin America Program Highlights

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Greenwood Highlights Need for Bold Action to Address Alzheimer's

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Biopolymers and Green Chemicals Science Leader, Scion

Rotorua, New Zealand

July 20, 2014

Development Associate IV, Sangamo BioSciences, Inc.

Point Richmond, California, United States

July 16, 2014

On July 31, BIO, alongside a group of international bioindustry trade associations submitted comments to the United States Patent and Trademark Office regarding their March 4, 2014 Guidance on patent subject matter eligibility...

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SYNTHETIC BIOLOGY

Misinformation Is Poisoning the Environment for Synthetic Biology

Friends of the Earth, Center for Food Safety and the ETC Group (or Action Group on Erosion, Technology and Concentration) have launched a campaign to frighten consumers and consumer product companies about synthetic biology...

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INTELLECTUAL PROPERTY

A New Study Reports on PTO Patent Examinations in the wake of Mayo and Myriad


The Mayo and Myriad decisions wiped clean many prior conditions for patentable subject matter. In addition, the PTO remains unsure as to how to interpret the court's analysis...

Share:   

ANIMAL BIOTECHNOLOGY

Scotland, Kenya Come Together to Study Livestock Genetics

Scientists from Scotland and Kenya will work together in a new international center focused on studying livestock genetics to improve the health and productivity of tropical farm animals, according to a statement by the The Roslin Institute...

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HEALTH

Jim Greenwood in WSJ: Curing Hepatitis C Is Cheaper Than Open-Ended Care

Medical Affairs Specialist, Sucampo Pharma Americas, LLC

Bethesda, Maryland, United States
July 15, 2014


Biotech Careers: FT & Seasonal, SenesTech

Flagstaff, Arizona, United States
July 15, 2014


Project Manager, Consultant, Life Sciences, Integrated Project Management Company, Inc.

San Francisco, California, United States
July 19, 2014

POST A BIOTECHNOLOGY JOB >

 [#Ebola](#) is one of the world's most virulent diseases and treating it is complicated by the fact that it is highly contagious and deadly. But there is hope.

7 LIKES | JOIN


 Scientist invests in biotech stocks <http://ow.ly/2Lvp4m>

7 RETWEETS | JOIN

 San Diego Slips to Third in Latest Biotech Ranking

4 COMMENTS | JOIN

On Friday, a letter from BIO President and CEO Jim Greenwood was published in the Wall Street Journal, arguing that curing hepatitis C is cheaper than the alternative of open ended care...

Share:   

HEALTH

New study shows hepatitis C burden may ease in future

A new study published in the Annals of Internal Medicine projects that the prevalence of hepatitis C will shrink in the coming decades thanks to new medicines and increased screening regimens...

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HEALTH

Decoding Genes to find Breast Cancer

On August 7, 2014, researchers at the University Medical Center Utrecht announced that they have identified a gene that puts women at higher risk for breast cancer...

Share:   

HEALTH

BIO Presents at 2014 Biological Weapons Convention Meeting of Experts

This year, for the first time ever, BIO was invited to present on novel technologies and emerging approaches to public-private partnerships to ensure preparedness under the treaty...

Share:   

GMOS

Ohio: Consider Some of the Benefits of Genetically Modified Foods

Jack Fisher, executive vice president of the Ohio Farm Bureau Federation, wrote a wonderful op-ed in the Cleveland Plain Dealer about the use of agricultural biotechnology in food production...

Share:   

GMOS

1 of the 2,000 Articles Supporting GMO Safety

The Huffington Post published a blog titled Genetically-Modified Organisms Have NOT Been Proven Safe...

Share:   

FOOD LABELING

Like Dominoes they Fall - the GMO Labeling Bills Nationwide



2014 has been a record year for proponents of GMO labeling in terms of legislative proposals in states and territories. At last count, almost a hundred GMO labeling bills were pending at some point earlier in the year before 30 state legislatures...

Share:   

GMO ANSWERS

GMO Answers Kicks-off its Second Year with New Media

To kick off our second year, GMO Answers is excited to share new videos, articles, and more of our popular visual mythbusters! Here are some examples of our new content...

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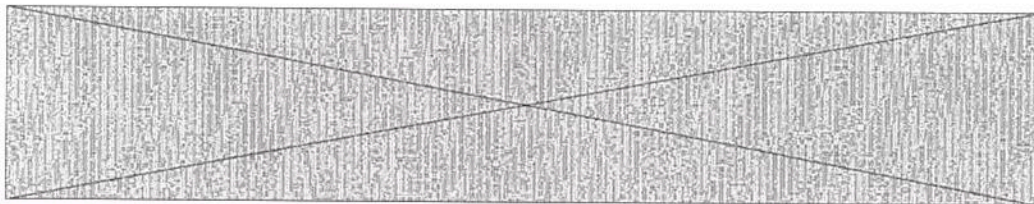
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For more information, contact larson.robort@epa.gov
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To: Larson, Robert[larson.robert@epa.gov]
From: Geoff Cooper
Sent: Wed 8/13/2014 3:05:48 PM
Subject: Weekly Ethanol Production for 8/08/2014



Weekly Ethanol Production for 8/08/2014

Good morning,

Here is the weekly ethanol production data for the week ending 8/08/2014.

According to EIA data, ethanol production averaged 931,000 barrels per day (b/d)—or 39.10 million gallons daily. That is up 29,000 b/d from the week before. The four-week average for ethanol production stood at 937,000 b/d for an annualized rate of 14.36 billion gallons. Since the beginning of June, the annualized run rate has averaged 14.45 billion gallons.

Stocks of ethanol stood at 17.8 million barrels. That is a sizable 2.7% decrease from last week, and the lowest in 11 weeks. Stocks dropped back to the implied 20-day supply level for the first time since the week ending 5/23/2014.

Imports of ethanol were non-existent for the second straight week.

Gasoline demand for the week averaged 374.7 million gallons daily.

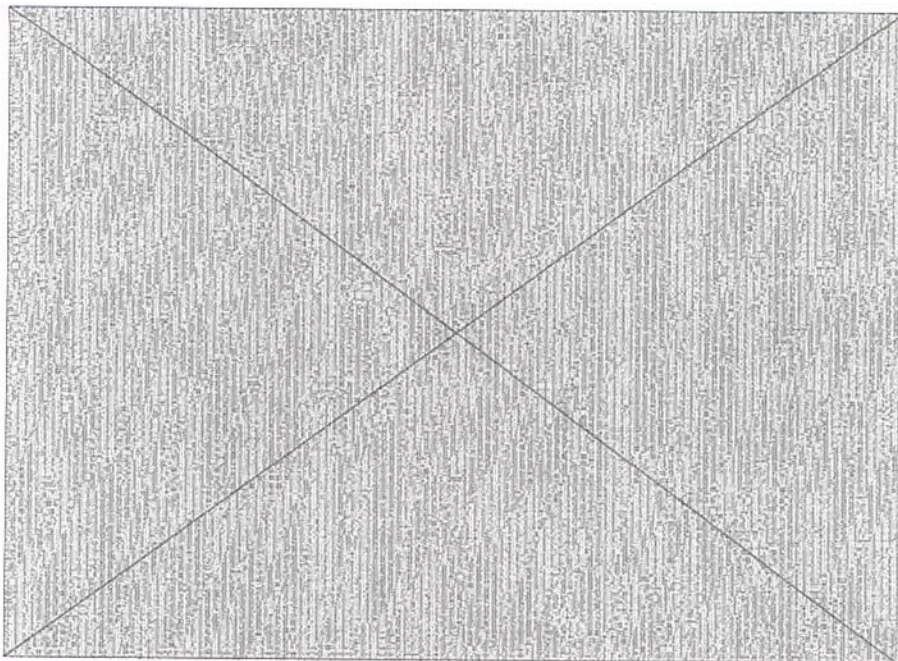
Expressed as a percentage of daily gasoline demand, daily ethanol production was 10.43%.

On the co-products side, ethanol producers were using 14.116 million bushels of corn to produce ethanol and 103,275 metric tons of livestock feed, 92,003 metric tons of which were distillers grains. The rest is comprised of corn gluten feed and corn gluten meal. Additionally, ethanol producers were providing 5.48 million pounds of corn distillers oil daily.

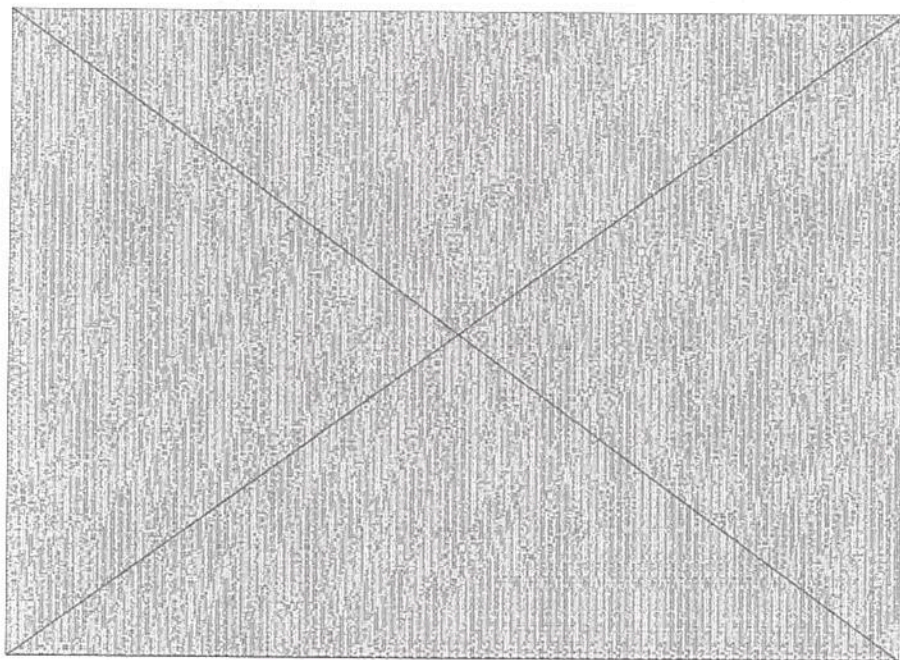
If you have any questions, please let us know.

Contact:
Dawn Moore
Communications Director
Renewable Fuels Association
(202) 289-3835
dmoore@ethanolrfa.org

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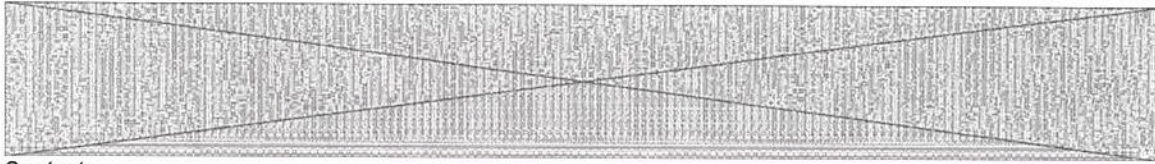


[Enlarge this chart.](#)



[Enlarge this chart.](#)

Contact:
Dawn Moore
Communications Director



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Communications Director
Renewable Fuels Association
(202) 289-3835
dmoore@ethanolrfa.org

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To: Larson, Robert[larson.robert@epa.gov]
From: BIO - Biotechnology Industry Organization
Sent: Thur 7/31/2014 7:43:33 PM
Subject: BIO Newsletter: July 31, 2014

Add bio_newsletter@bio.org to your contacts to ensure email delivery. Not displaying correctly? [View this email in a browser](#). If you received this message from a friend, please subscribe to BIO Newsletter.

07.31.2014

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JOBS ACT

Biotech CEOs Speak Out on JOBS Act Success

Enacted in April 2012, the Jumpstart Our Business Startups (JOBS) Act makes the pathway to capital formation more attainable for small biotechnology companies, clearing the way for American innovation and ingenuity by removing bureaucratic hurdles and red tape to speed cures and medical breakthroughs to patients. The JOBS Act reached a major milestone last week, with the 100th company going public under its provisions...

Share:   

LIVESTOCK BIOTECH SUMMIT

Former Undersecretary of Agriculture for Food Safety Speaks Out for Animal Ag Biotech


The Former Undersecretary of Agriculture for Food Safety, Dr. Richard Raymond, recently argued for greater support around animal ag technology as a tool that can help feed a growing world population...

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BIOCENTURY THIS WEEK

340B Drug Discount Program Needs More Oversight




BIO's Laurel Todd shared concerns that the 340B program has departed significantly from its original intent, leading to evidence of abuse and potentially harmful consequences for patients...

Share:   

PHYSICIAN PAYMENTS SUNSHINE ACT

Partners for Healthy Dialogues: Letter to CMS

BIO, a member of Partners for Healthy Dialogues (P4HD), joined 25 medical societies and manufacturers in a letter to the Center for Medicare and Medicaid Services highlighting both their shared commitment to sunshine and the importance of context in the upcoming data release...

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HEALTH CARE

New Report: Innovation in Hepatitis C Treatment




The California Healthcare Institute released a report on the public health impact of Hepatitis C and the potential of groundbreaking new treatments to save tens of thousands of lives...

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AGRICULTURE

Washington Farmer: Reg Delays are Smothering Biotech Innovaton

Agri-Pulse recently published a notable guest opinion editorial by Mark Wagoner, a third generation farmer in Walla Walla County, Washington, and a volunteer board member for Truth About Trade & Technology...

Share:   

GMO ANSWERS

GMO Answers Celebrates A Successful One Year Anniversary

We are very excited to celebrate the one year anniversary of GMO Answers, with more than half a million visits to date...

Share:   

AGRICULTURE

Report Shows Biotech Crop Varieties Continue to be Preferred By U.S. Farmers

Tom Saidak reported for BioBased Digest on the latest U.S. adoption data for genetically engineered varieties of corn, cotton and soybeans...

Share:   

HEALTH CARE

Beggar-Thy-Neighbor Medicine: Wall Street Journal Op-Ed

In an editorial about specialty drug prices, the Wall Street Journal writes: "To understand how ObamaCare is already bending the future of U.S. medical progress, consult the furor over specialty drug prices, as an alliance of convenience among third-party payers assails pharmaceutical innovation as too costly"...

LAST UPDATED

FOOD LABELING

The 'What's the Point' Category for GMO Labeling Bills



Lawmakers have so much work to do, and few days left in which to do it. Formal sessions will end July 31...

Share:   

LIVESTOCK BIOTECH SUMMIT

BIO Highlights the Importance of Care and Use of Animals at 2014 Livestock Biotech Summit

How can we give patients faster access to innovative treatments and cures? That's the question the House Energy and Commerce Committee is asking our nation's foremost medical experts and innovators through white papers, hearings, and roundtables in an initiative we call BIO Highlights the Importance of Care and Use of Animals at 2014 Livestock Biotech Summit...

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SYNTHETIC BIOLOGY

Synthetic Biology: The Sword in the Stone to Defeat Devastating Diseases

On July 17, 2014 the House held a hearing titled: Subcommittee on Research and Technology Hearing - Policies to Spur Innovative Medical Breakthroughs from Laboratories to Patients...

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[09.09.14](#)

BIO Latin America Conference

BIO Latin America in Brazil is your opportunity to access the innovation and partnering opportunities in Latin America's rapidly-growing life science industry. Gain insight and strategies from biopharma leaders and government officials, attend company presentations and network with global and regional attendees, with sizeable delegations from Chile, Colombia and Mexico...

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Livestock Biotech Summit

This unique conference offers a focus on genetic engineering of agricultural animals including benefits, research and development, regulatory system, and challenges to advancing health, food and industrial applications of animal biotechnology...

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[10.07.14](#)

BIO Investor Forum

The BIO Investor Forum is an international biotech investor conference focused on early and established private companies as well as emerging public companies. The event features plenary sessions, business roundtables and therapeutic workshops, company presentations, and One-on-One Partnering™ meetings...

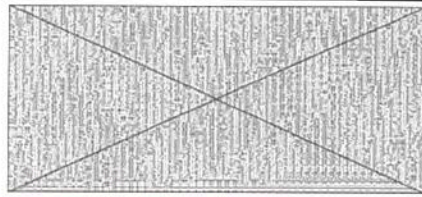
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BIO-EUROPE

The 20th annual BIO-Europe is Europe's largest partnering conference serving the global biotechnology industry...

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Developer/Cheminformatics
Novartis

California, United States
July 29, 2014

District Manager, Oncology
(Pacific North West),
Janssen Biotech, Inc.

Seattle, Washington, United States
July 25, 2014

Director Regulatory
Affairs, Dr. Reddy's
Laboratories

Princeton, New Jersey, United States
July 21, 2014

Biopolymers and Green
Chemicals Science
Leader, Scion

Rotorua, New Zealand
July 20, 2014

Sr Manager, Business
Conduct, Gilead
Sciences

Foster City, California, United States
July 9, 2014

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Real question: what can we say and/or do
to help people get over their
misunderstandings about vaccines? Best
ideas and GO!
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Genetically modified mosquitos set to fight
dengue fever in Brazil <http://ow.ly/2KN22R>



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To: Larson, Robert[larson.robert@epa.gov]
From: Brent Erickson
Sent: Thur 5/7/2015 5:08:30 PM
Subject: Special Announcement: Dr. Jennifer Holmgren to Receive the 2015 BIO Rosalind Franklin Award

Dear Larson,

It is with great pleasure we are announcing that **Dr. Jennifer Holmgren will be the recipient of the 2015 BIO Rosalind Franklin Award for Leadership in Industrial Biotechnology at the BIO World Congress on Industrial Biotechnology, which will take place July 19-22 in Montreal, Canada.** Dr. Holmgren's work and commitment to the advancement of her field of industrial biotechnology embodies the spirit of Rosalind Franklin and her pioneering efforts.

Dr. Jennifer Holmgren

This award was created to help carry on the legacy of Rosalind Franklin who not only aided in the expansion of biotechnology, but also helped pave the way for women in this field. Rosalind Franklin was instrumental in the discovery and our greater understanding of the molecular structure of DNA. Through Rosalind Franklin's use of X-ray diffraction images, the true double helix structure of DNA was discovered. With the aid of Franklin's images and writings, Francis Crick and James Watson were able to release their 1953 model of the structure of DNA.

More than fifteen female leaders in industrial biotechnology were nominated for the award. Dr. Holmgren's accomplishments and dedication stood out to the Rosalind Franklin Award Selection Committee, who selected her as the inaugural recipient.

Dr. Holmgren is CEO of a revolutionary carbon recycling company, LanzaTech. Under her leadership, LanzaTech is developing the world's first alternative jet fuel from industrial waste gases using intermediates derived through industrial biotechnology. LanzaTech's technology, certified by the Roundtable on Sustainable Biomaterials (RSB) in 2013, is ready to deploy globally today, with a 30 million gallon nameplate facility targeted for construction in China in 2015, producing fuel ethanol from steel mill off gases.

Dr. Holmgren's team has defined the genetic blueprint of gas fermenting organisms and demonstrated in the laboratory that they can be engineered to produce a range of novel, commercially valuable molecules. LanzaTech's work is a cornerstone for the development of an entire industry that uses gas fermentation to convert a variety of wastes or low value resources into a diverse spectrum of low carbon fuels and chemicals.

Prior to joining LanzaTech, Dr. Holmgren was Vice President and General Manager of the Renewable Energy and Chemicals business unit at UOP LLC, a Honeywell Company. She was one of the key drivers of UOP's leadership in aviation biofuels, and under her management, UOP technology became instrumental in producing nearly all of the initial fuels used by commercial airlines for testing and certification of alternative aviation fuel for passenger flights. These test flights brought tremendous visibility to the potential of renewable aviation fuel and the role of biotechnology in feedstock development.

Dr. Holmgren holds a Bachelor of Science degree from Harvey Mudd College, a Doctor of Philosophy from the University of Illinois at Urbana-Champaign and a Master of Business Administration from the University of Chicago. She is the author or co-author of 50 US patents and 20 scientific publications and was named as one of the top 10 most influential leaders in the Biofuels Industry by Biofuels Digest for 2013-2014.

With the support of the Rosalind Franklin Society-- the award sponsor -- BIO will present Dr. Holmgren with the BIO Rosalind Franklin Award. The Rosalind Franklin Society is an honorific, interdisciplinary, and international society which recognizes, fosters, and advances the important contributions of women in the life sciences and affiliated disciplines. In so doing, the Society honors the under-recognized achievements of the late Rosalind Franklin (1920-1958). To

celebrate the life, work, and symbolic power of this remarkable heroine in science, the Society recognizes the work of outstanding women scientists, fosters greater opportunities for women in the sciences, and motivates and educates by examples young generations of women who have this calling.

During this conference, BIO will also hold a Women in Industrial Biotechnology Reception which is schedule to take place on July 19 at 4:30 pm. This reception is only accessible to attendees of the BIO World Congress and has a limited number of spots available on a first-come, first-served basis. Email rhayes@bio.org to reserve your spot today.

I encourage you to join me in congratulating Dr. Holmgren for her contributions, dedication and commitment to the advancement of the industrial biotechnology field.

Regards,



Brent Erickson

Executive Vice President

Industrial and Environmental Section

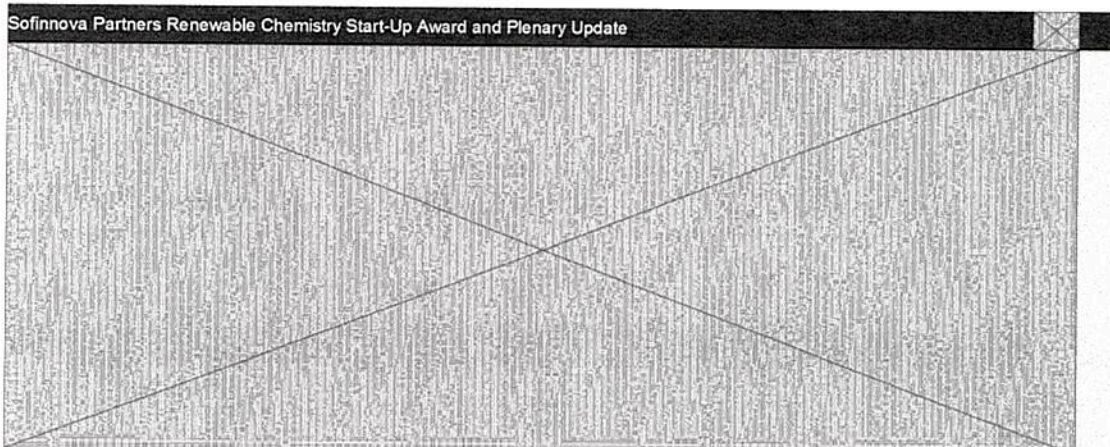
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To: Larson, Robert[larson.robert@epa.gov]
From: Brent Erickson
Sent: Mon 5/4/2015 4:31:22 PM
Subject: Announcing the Sofinnova Partners Start-Up Award



Announcing the Sofinnova Partners Renewable Chemistry Start-Up Award

Calling all start-up companies active in renewable chemistry, industrial biotechnology or renewable fuels: Apply today for the [Sofinnova Partners Renewable Chemistry Start-up Award](#) by **May 30, 2015**.

This award will recognize the most promising renewable chemistry start-up company in the industry. The Top 5 companies with the highest number of popular online votes will pitch their project at the 2015 BIO World Congress on Industrial Biotechnology. The winner will then be selected onsite by an industry jury at the Monday, July 20th event.

Sofinnova Partners is a leading European venture capital fund based in Paris investing in start-up and early stage companies across Europe and North America.

Biobased Innovations for the Future

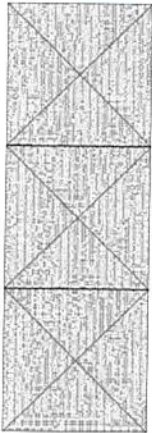
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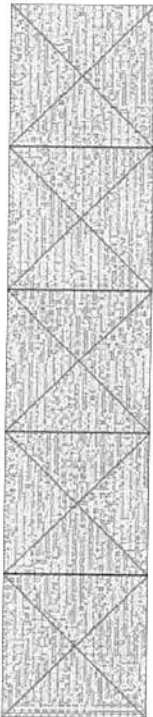


David Demirjian
CEO, **ZuChem**

Andras Forgacs
Co-Founder & Chief Executive, **Modern Meadows**

Success Stories

Lunch Sponsored by:  Andrew Hagan
Director, Head of Chemicals Industry, **World Economic Forum** (Moderator)



Tjerk de Ruiter
CEO, **Corbion**

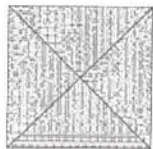
Vincent Chornet
Cofounder, President & CEO, **Enerkem**

Robert Graham
CEO & Chairman, **Ensyn**

Joel Stone
President, North America & Global Vice President Engineering, **Green Biologics**

Feedstock Sustainability in the Biobased Economy

Supporting Organization:



Matthew Rudolph
Business Development Manager, **Roundtable on Sustainable Biomaterials (RSB)** (Moderator)



Ken Shields
CEO & Chairman, **Conifex Timber**

Allan Green
Research Program Director for Bioproducts, **CSIRO**

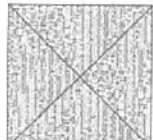
James Levine
CEO, **Sapphire Energy**

Steve Fabijanski
President & CEO, **Agrisoma Biosciences Inc.**

Flying the Friendly Green Skies & the Rosalind Franklin Award Presentation



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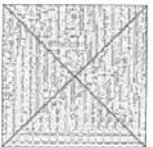
Steve Csonka
Executive Director, Commercial Aviation Alternative Fuels Initiative (CAAFI)



Michael Lakeman
Regional Director, Biofuel Strategy & Associate Technical Fellow, **Boeing Commercial Airplanes**

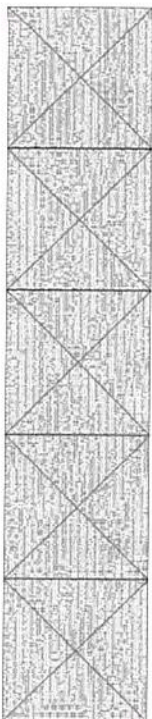


Alejandro Rios Galvan
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Maria Fiskerud
Nordic Director, **Sky NRG**

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The Honorable James C. Greenwood
President and CEO, **Biotechnology Industry Organization**(Moderator)

The Honorable Terry Branstad
Governor, **Iowa, United States**

Barend Verachtert
Deputy Head of Biotechnologies Unit, **European Commission**

Bernardo Silva
Executive Chairman, **Praj Industries Limited**

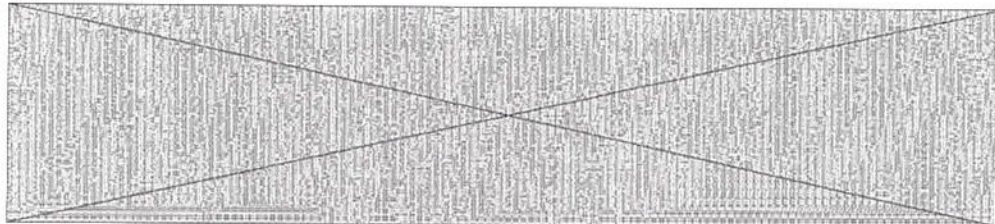
Pramod Chaudhari
Executive President, **Brazilian Industrial Biotechnology Association (ABBI)**

[View the Plenary Program »](#)

Don't Wait Until the Last Minute to Plan for Montreal

The BIO World Congress on Industrial Biotechnology taking place July 19-22, 2015 in Montreal is less than 90 days out. Don't miss out on being a part of the must-attend event for industrial biotechnology professionals.

Remember summer marks Montreal's famous festival season and "Just for Laughs" comedy festival will be taking place during BIO World Congress. Also, you can be part of two conferences in one trip by attending [BioFuelNet's Advanced Biofuels Symposium](#) July 22-24 at the Hotel Omni.



Your Checklist:

- ☒ [View the program and attending organizations](#)
- ☒ [Consider spending more time in Montreal](#)
- ☒ [Register for the conference](#)
- ☒ [Book your hotel room at a discounted rate](#)
- ☒ [Book your flight](#)



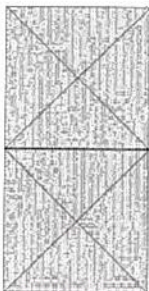
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State and Regional Approaches to Developing the Biobased Economy & the George Washington Carver Award Presentation

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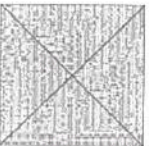
The Honorable James C. Greenwood
President and CEO, **Biotechnology Industry Organization**(Moderator)



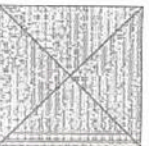
The Honorable Terry Branstad
Governor, **Iowa, United States**



Barend Verachtert
Deputy Head of Biotechnologies Unit, **European Commission**



Bernardo Silva
Executive Chairman, **Praj Industries Limited**



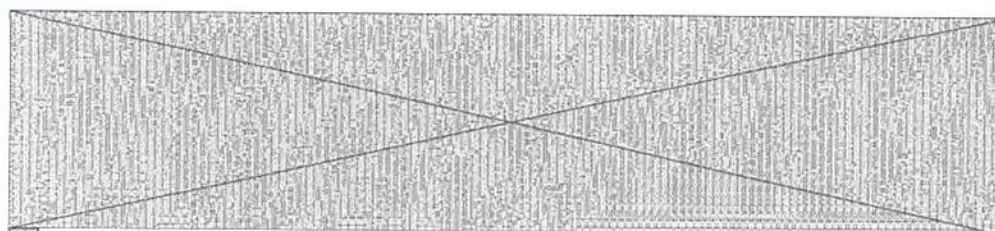
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[Consider spending more time in Montreal](#)

[Register for the conference](#)

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Mark Your Calendar for Montréal

The BIO World Congress on Industrial Biotechnology will take place July 19-22 in beautiful Montréal. Take advantage of early bird housing and registration rates by booking now.

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As of May 1, 2015

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To: Larson, Robert[larson.robert@epa.gov]
From: Wendy Siminski
Sent: Thur 4/30/2015 5:46:35 PM
Subject: Announcing our Buzz of BIO Winners!

Congratulations to our Buzz of BIO winners

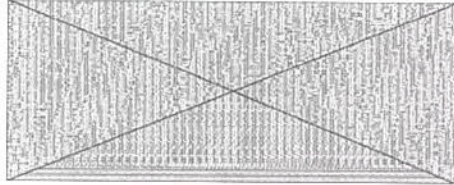
Announcing our Buzz of BIO Winners!

Congratulations to Our Winners!

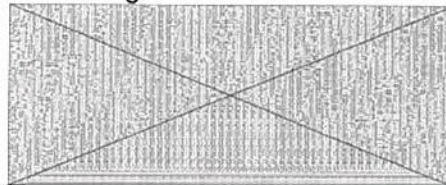
The *Pipelines of Promise* winner is Vascular BioSciences (VBS) and *Technologies of Tomorrow* winner is ProTransit Nanotherapy.

Buzz of BIO winners join over 180 new industry players delivering 15-minute Company Presentations as part of the BIO Business Forum.

Pipelines of Promise:



Technologies of Tomorrow:

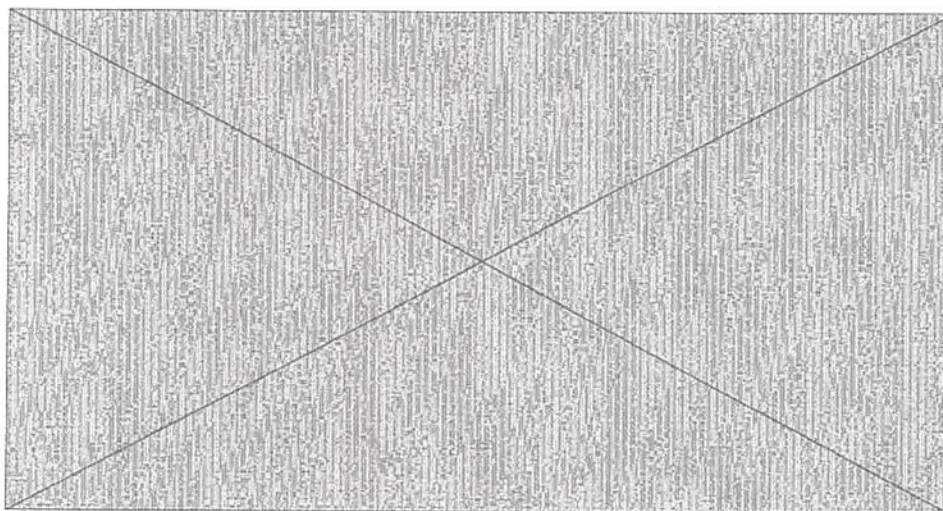




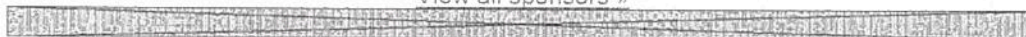
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